

NOGS LOG

JULY 2018

Volume 59, Number 1



JULY 9 - NOGS LUNCHEON PRESENTATION

**The Zama Discovery in Salina del Istmo Basin, Offshore Tabasco:
"New Dawn" for Offshore Mexico Exploration**

**Guest Speaker: David Kosmitis
Talos Energy LLC • Houston, Texas**



girl scouts
louisiana east

*Women Geoscientist Role Model
Volunteers Needed!*

3 Hour Shifts Needed

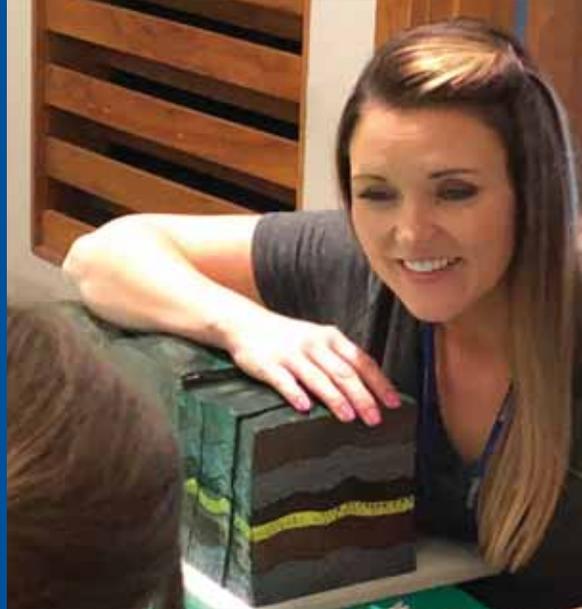


**Saturday
September 29th**

**University of New Orleans
New Orleans, LA**

9:30 a.m. - 2:00 p.m.

Contact Tom Bergeon for additional details
Tom.bergeon@upstreamexp.com or 504.832.3772





Published monthly by the New Orleans Geological Society. This issue was sent to press on June 30, 2018.

Interested in contributing to the NOGS LOG?
Please submit items by the 1st Friday of the month to nogseditor@gmail.com. Advertising requests should contact NOGS at admin@nogs.org.

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on the cover

Cover photo courtesy of the US Geological Survey

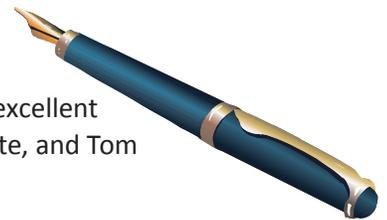
Kilauea, Hawaii Volcano National Park — Hawaii

This picture was taken in the Hawaii Volcano National Park. The park was established as part of the Hawaii National Park on August 1, 1916, and renamed Hawaii Volcano National Park on September 22, 1961. Hawaii Volcano National Park was designated a Biosphere Reserve in 1980 and a World Heritage Site on December 10, 1987.

This is a picture of the Kilauea Volcano summit collapse on Friday, June 29, 2018. It created an explosion equivalent to a 5.2-magnitude earthquake, the U.S. Geological Survey said.



From the Editor



I'm back at it, your *NOGS LOG* editor again. The past editor, Laura Sorey, has done an excellent job as editor and I hope I can do as well. Thank you Laura. Also thanks to Ed Picou, Annette, and Tom Klekamp for getting me started in the new workflow.

The biggest geology story in the news today is the volcanic activity in Hawaii and Guatemala. The destruction and deaths are just devastating. As of this writing 600 homes on the Big Island have been destroyed and 100+ deaths in Guatemala. Kilauea, a shield volcano, has spewed 4 billion cubic feet of lava since the initial eruptions on May 3rd and the shape of the island has been redefined. Guatemala's Mount Fuego, a stratovolcano, created deadly, fast moving pyroclastic eruptions and flows. Despite the horrible aspects of this destruction, watching the eruptions and lava flow is beautiful and fascinating. There are webcams in Hawaii that are so addicting, it's hard to stop watching. It is so awesome.

Send any comments or corrections to nogseditor@gmail.com

Fran
Fran Wiselady,
NOGS LOG Editor



FROM THE
PRESIDENT
ALEX JANEVSKI

As I write to you for the first time as President, it goes without saying that NOGS is in a period of great transition. Due to a decrease in advertising revenue, and maybe to the inexorable march of progress, these words are more likely to come to you via pixels rather than print. In a further cost-saving measure, the NOGS board chose to allow the lease on our office to expire in May. And by now you have likely heard that our office manager, Annette Hudson, will soon retire. I have been tasked with steering the ship through these changes, so it seems prudent to share my vision on how that will be done, as I will need the help of all of you to guide us forward.

Maintain the path toward fiscal solvency. The last few years have been a trying time for the oil and gas industry, and those difficulties are shared for a professional society like ours which relies on the generosity of individuals and companies who, in good times, can afford to provide us support. Importantly, we have to ensure that the tough choices we make do not hurt the future of the Society.

Grow our membership. If NOGS is going to remain a viable professional society, we need to grow. At AAPG this May, I learned that AAPG has seen the largest loss of members since the mid-80s. The loss of revenue that we are experiencing as an affiliate is exactly mirrored at a national level. The same tough financial conversations are being held, and our membership rolls face the same threats. I believe we will do this with the spirit of inclusiveness that I have felt at every NOGS event, and by demonstrating our value as a professional organization to the New Orleans geological community.

Maintain our core mission. I will not list all of the events and activities that NOGS hosts on an annual basis as you will hear from me about these throughout the year. The sheer volume is

staggering, and I am fond of telling colleagues in other cities that we are a society that punches well above our weight. We will continue to find outstanding luncheon speakers. We will continue our support of local schools, universities, and museums. On August 27th, you will once again see the NOGS Geoscience Seminar at the 22nd Annual Deepwater Technical Symposium. NOGS will also join the Louisiana Geological Survey in presenting the Louisiana Coastal Geology Symposium at LSU, July 10-11th. And we will continue to organize great activities throughout the year for the enjoyment of the Society's members.

Additionally, I would like to thank the outgoing members of the NOGS Board and welcome the incoming. For those who do not know, President Chris McLindon had one of the shortest tenures of a NOGS Vice President as he was pressed into service almost immediately to become President, steering us through a tumultuous moment for the Society. Robert Rooney stepped in to become Vice President and has organized our outstanding program of luncheon speakers. Margaret McKinney continued serving diligently as Treasurer in a time of challenged Society finances. Grant Black provided a clear organizing presence as Secretary and has generously found a physical meeting location for the Board at Chevron's downtown office. Laura Sorey maintained a high quality of the *NOGS LOG* for a second year, while making a big professional change. And thanks to the Directors, Brenda Reilly, Jennifer Connolly, and Dave Reiter, whose reservoir of knowledge is indispensable for the functioning of NOGS.

Our new board features Chris McLindon, taking another swing at Vice President; Robert Rooney returns as President-Elect; Grant Black will move to Editor-Elect, and Fran Wiseman will rejoin the board as *NOGS LOG* Editor. And also joining us are Shara Gremillion as Secretary, David Culpepper as Treasurer, and Chuck Holman returns to the Board as a Director.

Please thank the former and incoming members of the board if you see them.

In closing, if you are interested in becoming more active in NOGS we have a variety of committees to participate in, including many which have gone dormant. Send me an email if you are interested and help me fulfill the vision that I see for NOGS in the coming year.

Alex Janevski

SAVE THE DATE!

22nd Annual Gulf of Mexico

Deepwater

Technical Symposium

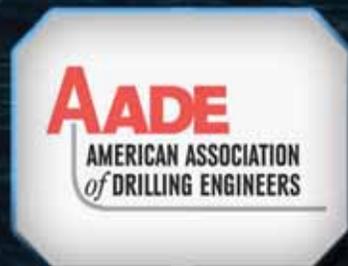


August 27-29

2018

***New Orleans Downtown Marriott
at the Convention Center***

www.deepwaternola.org





NOGS Contact Information

Email: admin@nogs.org • Website: www.nogs.org
 P.O. Box 58108 • New Orleans, LA 70158.

Correspondence and all luncheon reservations should be sent to the above address.

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Ballot	David B. Culpepper
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Loretto Stephens	2017-19	504-451-3472
Judy Lemarié	2018-20	504-393-8659
Peggy Rogers	2018-20	504-392-6323



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July 9 • NOGS Luncheon

Holiday Inn Downtown Superdome

\$3.00 validated parking in hotel garage

Presentation:

***The Zama Discovery in Salina del Istmo Basin, Offshore Tabasco:
"New Dawn" for Offshore Mexico Exploration***

Guest Speaker:

David Kosmitis

Talos Energy LLC • Houston, Texas

See page 8 and 9 for Abstract and Biography

HOLIDAY INN DOWNTOWN SUPERDOME

Check with concierge or
front desk for location.
Lunch served at 11:30 am

ADMISSION:

With reservation..... \$30.00
Without reservation \$35.00
Student Member with reservations..... FREE

July 10-11

Louisiana Coastal Geology Symposium

Dalton J Woods Auditorium • LSU • Baton Rouge, Louisiana
 For more information: www.lsu.edu/ces/conferences/lcgs2018/indwx.php

**VOLUNTEERS
NEEDED!**

September 22
Energy Day

11 am - 3 pm • Louisiana Children's Museum
 For more info, Tom Bergeon at tom.bergeon@upstreamexp.com

August 27-29

22nd Annual Gulf of Mexico Deepwater Technical Symposium

N.O. Downtown Marriott Convention Center • New Orleans, Louisiana
 For more information: www.deepwatermola.org/p

**VOLUNTEERS
NEEDED!**

September 29
Girl Scouts B.I.G. Event

9:30 am - 2 pm • University of New Orleans • New Orleans, Louisiana
 For more info, info@stratigraphyhelp.com or 720-434-3864

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Continued from previous page

MEMORIAL FOUNDATION

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2019-2020	Trustee	David Reiter	Talos Energy LLC	504-593-3623	david.reiter@talosenergy.com
2019-2020	Trustee	TBD			
2020-2021	Trustee	TBD			
2020-2021	Trustee	TBD			

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Term Ends

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2020	Elizabeth McDade			elizabeth_mcdade@fmi.com
2020(a)	G. Alex Janevski	Shell	504-425-6214	gregory.janevski@shell.com



July 9 NOGS Luncheon Presentation

☆☆☆ at the Holiday Inn Superdome ☆☆☆

The Zama Discovery in Salina del Istomo Basin, Offshore Tabasco: "New Dawn" for Offshore Mexico Exploration

Presented by

David Kosmitis

Talos Energy LLC • Houston, Texas

ABSTRACT

The Talos Energy Zama #1, the first private-sector exploration well operated in Mexico in 78 years, was drilled in May-July of 2017 in Block 7, offshore Tabasco in 166m water. The Zama structure was identified prior to the leasing round using 3D narrow-azimuth seismic data, and consists of an upthrown fault block with three-way closure on the flank of a salt structure in the eastern Salina del Istmo basin. A gross sandstone reservoir interval of 344 meters was penetrated, containing 29.6^o API oil. The estimated reserves make Zama one of the most significant offshore discoveries globally in several years.

An array of tools and techniques was used to define, drill, and evaluate the Zama prospect. These include: 1) pre-drill AVO analysis calibrated to seismic data using existing well control, 2) structural and stratigraphic analysis to frame the prospect in proper context, 3) petrophysical analysis using XRD mineralogy and image logs, 4) forward modeling for pre-drill stratigraphic control and reservoir thickness, 5) a full suite of LWD and wire line logs (including elemental spectroscopy, formation pressure testing, and fluid sampling), 6) combined biostratigraphic and petrologic (XRD and XRF) analyses performed on cuttings while drilling, and PVT analysis.

The reservoir section is dominated by amalgamated, very fine-grained to fine-grained, highly feldspathic, consolidated sandstones with low clay and carbonate contents. Structural mapping and biostratigraphy suggest sediment may have been fed into an evolving Late Miocene mini-basin from a focused entry point, and deposited as a confined slope-fan complex. The base of the reservoir section coincides with a significant unconformity related to salt tectonics. XRF elemental chemostratigraphy recognized 20 zones within the overall Oligocene-Pleistocene section, largely driven by changes in heavy mineral and clay composition. Distinctive elemental changes occur across the base-of-reservoir unconformity, while more subtle variations appear useful for intra-reservoir subdivision. After pressure-gradient data confirmed only one hydrostatic system in the reservoir, a fluid sample was acquired. Wellbore conditions precluded acquisition of cores, so there is still much to learn about the details of the Zama reservoir.

With the success of this integrated approach, the Zama #1 discovery has thus far lived up to its Mayan namesake, "City of Dawn", and hopefully signals a new era for exploration in Mexico.

BIOGRAPHY

David Kosmitis has 35 years of exploration and development experience in various basins in the Gulf Coast of North America and seven countries around the world. His efforts have produced numerous discoveries in both clastic and carbonate environments. His primary efforts have been historically focused on prospect generation and development utilizing the full integration of geological and geophysical data. He has a Bachelor of Science in Geology from Memphis University.



THE JUNE LUNCHEON RESERVATION DEADLINE IS JULY 6.

"And Looking Ahead . . ."

The next luncheon will be held on August 6. Our guest speaker, Kirsten Siebach from Rice University, will present "Sedimentary Records from Another World: Exploring Gale Crater Basin with the Curiosity Rover." Contact NOGS at admin@nogs.org or use the PayPal link at www.nogs.org to make your reservation.

Halokinesis and Sequence Stratigraphy of Salt Plays

Sept 17-21, 2018

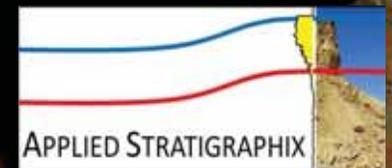
WHO SHOULD ATTEND

- Geologists
- Geophysicists
- Petrophysicists
- Engineers

This course is meant for all who are working on mobile substrate basins, especially the GOM, Angola and Brazil

YOU WILL LEARN HOW TO:

- Relate seismic facies to reservoir and non-reservoir rocks
- Interpret salt-related plays on seismic data
- Determine timing of deposition vs salt movement
- Describe mixed evaporite-carbonate-siliciclastic successions



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TRIP HIGHLIGHTS

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- Seismic-scale diapirs
- Minibasins in outcrop
- Core workshop on salt-encased reservoir sandstone

\$4250/person – this price includes tuition, course manuals, exercise materials, hotels, all meals, transportation and pick-and-drop from the airport, and 1-hour long overflight. To register e-mail us: info@stratigraphyhelp.com or call (720) 434-3864



CALENDAR OF EVENTS: JULY - SEPTEMBER 2018

If you know of upcoming seminars or academic events that may be of interest to our members, please email the event details to Fran Wiseman at nogseditor@gmail.com to be included in the monthly calendar.

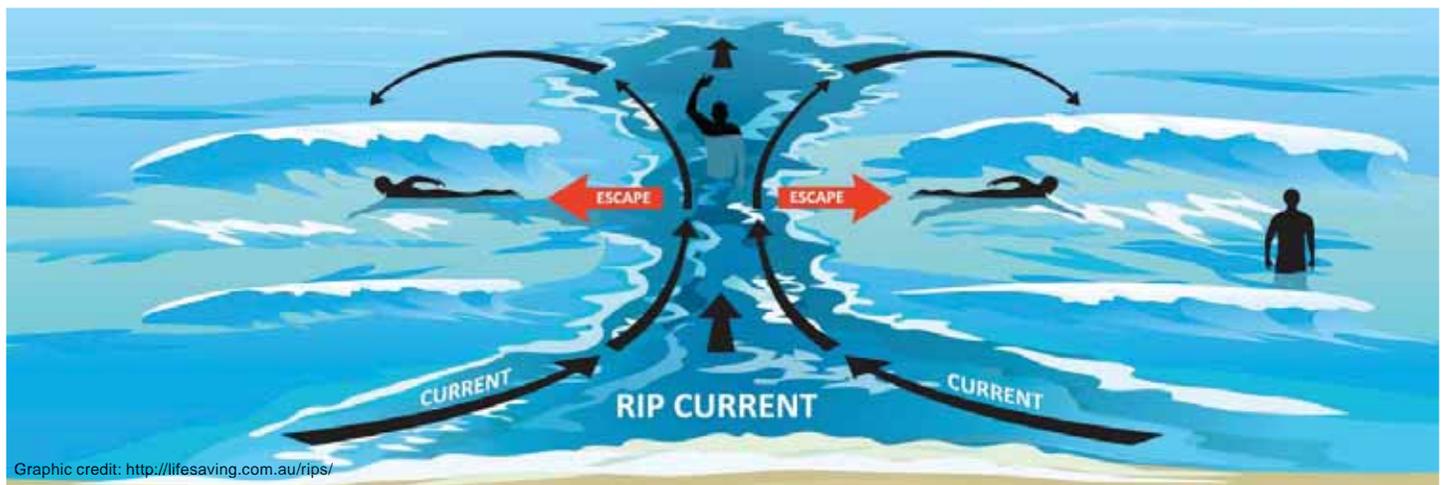
2018	EVENT	LOCATION	CONTACT / INFO
4 Jul	Independence Day		
9 Jul	NOGS Luncheon Presentation "The Zama Discovery in Salina del Istmo Basin, Offshore Tabasco: 'New Dawn' for Offshore Mexico Exploration" Speaker: David Kosmitis • Talos Energy, LLC	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
10-11 Jul	Louisiana Coastal Geology Symposium	LSU Baton Rouge, LA	http://www.lsu.edu/ces/conferences/lcgs2018/index.php
6 Aug	NOGS Luncheon Presentation "Sedimentary Records from Another World: Exploring Gale Crater Basin with the Curiosity Rover" Speaker: Kirsten Siebach • Rice University	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
27-29 Aug	Geoscience Opening Seminar and the 22nd Annual Gulf of Mexico Deepwater Technical Symposium	N.O. Downtown Marriott Convention Center	http://www.deepwaternola.org/
10 Sep	NOGS Luncheon Presentation Speaker & Topic: TBA	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
17-21 Sep	Applied Stratigraphix "Halokinesis and Sequence Stratigraphy of Salt Plays"		info@stratigraphyhelp.com 720-434-3864
22 Sep	Energy Day	11 am - 3 pm LA Children's Museum	Tom Bereon • 504-832-3772 tom.bergeon@upstreamexp.com
29 Sep	Girl Scouts B.I.G. Believe in GIRLS Event	9:30 am - 2 pm UNO • New Orleans, LA	Tom Bereon • 504-832-3772 tom.bergeon@upstreamexp.com

BEACH SAFETY: HOW TO SURVIVE A RIP CURRENT

Since so many of us spend our summer days at the beach, it never hurts to know what to do if you find yourself caught in a rip current. The instructions below may save your life!

If you're caught in a rip current, do NOT try to swim against the current; it will only tire you out. If you're still able to swim, then swim parallel to the shore to break the current's grip. If you become too tired to swim, try to float on your back, wave your arms and shout for help. Above all, do not panic! Even if you're unable to break the grip, the rip current will eventually release you.

Don't fight it • Stay calm • Swim out parallel to the shore if you're able, float if you're not • Call for help



Graphic credit: <http://lifesaving.com.au/rips/>



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New Orleans Geological Auxiliary News

"The objective of the Auxiliary is to promote fellowship among the wives of the members of the New Orleans Geological Society and to render assistance to NOGS upon request."

NOGA Annual Meeting and Luncheon

The ladies of the New Orleans Geological Auxiliary met on Wednesday, May 9 for their annual meeting and luncheon at the New Orleans Country Club. A lovely day was planned by Penny Bryant and Alma Dunlap. A wonderful lunch was followed by delicious peppermint ice cream with chocolate sauce, enjoyed by all.

It was good to see Judy Lemairié, joined by her daughter, Jane Finn, and Judy Sabaté. Both of them are recovering from falls earlier this year. Other guests included Annette Hudson, office secretary for NOGS, invited by Alma Dunlap and Judy Drez, longtime friend of Mary Walther.

Much of the conversation was about vacations planned for this summer. Several couples have trips to Alaska on their agenda.

Vice President, Camille Yeldell, took to the podium on behalf of President Margie Conataser who was travelling with her family. Camille introduced the new Loyalty Award recipient, Trudy Corona. Trudy has been very involved with the auxiliary for many years, serving on many committees, and serving as several officers, including President. She has also offered her home for many events. Congratulations Trudy!

Lastly, the 2018-19 board was introduced and each presented with a bronze colored rose. The officers are: President Margie Conataser, Vice President Camille Yeldell, Secretary Linda Peirce (also out of town), and Treasurer Mary Walther. Board members for 2017-19 are Penny Bryant and Loretta Stephens, and Board members for 2018-20 are Judy Lemarié and Peggy Rogers.

New Orleans Geological Auxiliary Membership Application

Name _____ Spouse's Name _____
Address _____ Home Phone _____
City, State, Zip _____ Cell Phone _____
Spouse's Company _____ Email _____

Dues: \$25 payable to New Orleans Geological Auxiliary
Please mail to Mary Walther, 2421 Prancer St., New Orleans, LA 70131

Thank You to the 2018 Golf Tournament Sponsors!

NOGS, PLANO, and SPWLA thank the following sponsors for making the 2018 Golf Tournament benefitting the Children's Museums on the North and South Shore successful.

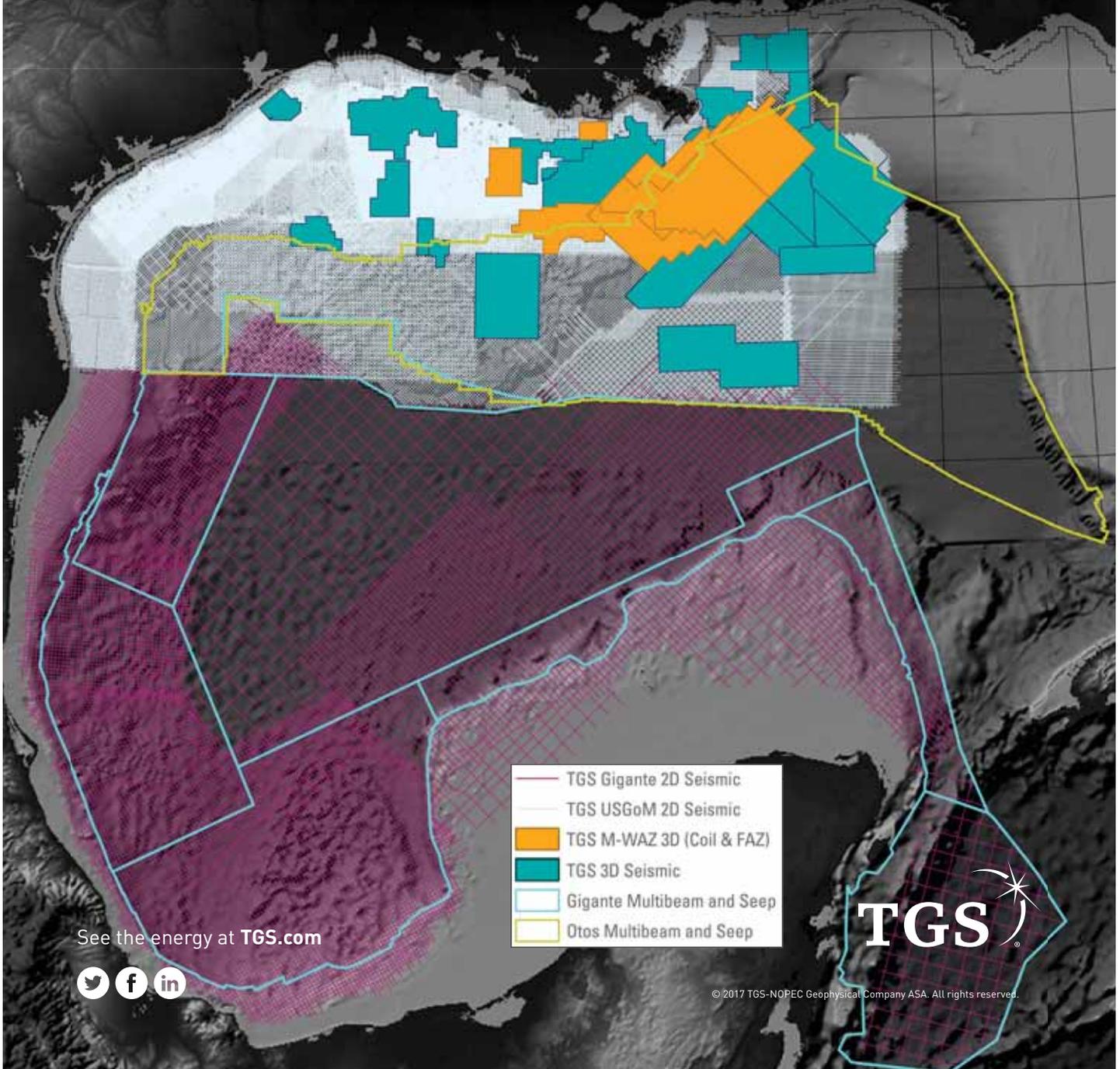
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Gulf of Mexico

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NOGS/PLANO/SPWLA GOLF T



TOURNAMENT - MAY 18, 2018



South Louisiana and Offshore Gulf of Mexico Exploration and Production Activities

LAFAYETTE DISTRICT, ONSHORE AREA

By Carlo C. Christina and Kevin J. Trosclair

During the months of April and May, the Office of Conservation, Lafayette District, issued a total of 24 permits to drill for oil and gas in the Lafayette District. Following are the most interesting and significant locations:

NEW LOCATIONS

In Lafourche Parish, **Lake Long Field, (A)**, S2 Energy Operating has drilled the #32 **SL 328** in 17S-19E to a total depth of 11,150 feet and has run casing to total depth and released the rig. (NOTE—**State Lease 328** was awarded to S. A. Guidry on November 13, **1935—83 years ago**. It covered 9,000 acres and was obtained for a **bonus of \$8,000. or \$.89 per acre**, with a 1/8th royalty. The lease was later assigned to Fohs Oil Company who drilled the discovery well in 1937. More than 125 wells have been drilled on the state lease. (SN 250955)

LLOX has drilled its #2 EMC Fee in **Bayou Couba Field, (B)**, St. Charles Parish to a total depth of 13,852 feet in Sec. 2, 15S-21E. Casing has been set to total depth and the well will be perforated in a Cib op sand in the interval 13,578 to 13,619 feet. (SN 250965)

In Beauregard Parish, **West Cow Pen Creek Field, (C)**, Fontainebleau Operating will drill the #2 Mineral Res 21 to a proposed total depth of 11,600 feet to test Wilcox sands. It is located in Sec. 21, 6S-10W, approximately 4000 feet west of production. (SN 251043)

Marquis Resources is drilling below 2547 feet in its #1 Franklin in **North Woodlawn Field, (D)**, in Jefferson Davis Parish. It will be drilled to a proposed total depth of 11,440 feet, in Sec. 20, 8S-6W. (SN 251033)

In Plaquemines Parish, Burrwood Field, (E), Hilcorp Energy is drilling its #1 SL 21729 below 14,200 feet, with a proposed bottom hole location S 87 W, 9832 feet from the surface location. The well is located in Sec. 2, 25S-30E. (SN 250967)

COMPLETIONS

Interstate Explorations has completed an oil well in **Bayou Sorrel Field, (F)**, Iberville Parish, in Sec. 98, 10S-10E. The #1 Five Star Royalty was drilled to a total depth of 11,100 feet and completed flowing 408 BOPD through perforations 9990 to 9993 feet. (SN 250253)

In Plaquemines Parish, **West Delta Block 83 Field, (G)**, Hilcorp Energy has completed an oil well in its #3 MQ OJ POD IN Sec. 36, 24S-30E, flowing 1195 BOPD and 821 MCFD through perforations 11,180 to 11,220 feet. (SN 250832)

Castex Energy has completed an excellent gas well in **Bayou Goreau Field, (H)**, Terrebonne Parish. The #1 SL 21615 was drilled in Sec. 34, 21S-13E. It was completed in Dis 12 Sands through perforations 17,244 to 17,320 and 17,344 to 17,370 having more than 100 feet of feet of gas sands, flowing 6757 MCFGD and 744 BCPD. In addition to the completion sands an additional 50 feet of pay is found below this section **AND additional productive sands are found between 16,450 and 16,950 feet.** SN (250499)

OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES

by Al Baker

During **May 2018**, the **BOEM** approved **81** Gulf of Mexico drilling permits. **Sixteen** of these were for **shelf** wells, and **65** were for **deepwater** wells. Of the total number of permits, there were **no new well permits** issued in **deepwater** or on the **shelf**. This is the first time that no new well drilling permits have been issued over a monthly period during the past eight years.



On May 25th, **IHS-Petrodata** reported that the Gulf of Mexico mobile offshore rig supply stood at **85**, which is **6 less** than last month. The marketed rig supply consisted of **46** rigs, of which **34** were under contract. The marketed rig supply and contracted rig supply numbers were each **1 less** than reported last month. The marketed contracted versus total rig supply utilization rate stands at **43%**, and the marketed contracted versus marketed supply utilization rate stands at **73.9%**. By comparison, the May 2017 total fleet utilization rate stood at 50% (**versus 58.2% today**) with 47 out of the 94 rigs under contract.

As of May 25th, **BakerHughes** indicated that there were **18** active mobile offshore rigs in the Gulf of Mexico, which is **52.9%** of the rigs under contract as mentioned above. This active rigs number is **the same** as reported last month. Of the **18** rigs, **4** are located on the **shelf**, and **14** are situated in **deepwater**. At the same time last year, there were **23** mobile offshore rigs operating in the Gulf of Mexico suggesting that there has been a 21.7% decline in mobile offshore rig activity.

As of May 25th, the **BakerHughes** total U.S. rig count stood at **1059** rigs, which is **38 additional** rigs than at the end of April 2018. Of the 1059 rigs, **859 (81.1%)** are

oil rigs and **198 (18.9%)** are **gas rigs**. A year ago, there were 908 rigs working in the U.S. Thus, the current rig figure represents a **16.6% increase** in rigs. **Texas** still has the largest number of rigs with **534**, which is slightly more than half (50.4%) of the total number of rigs in the U. S. **Louisiana** has a total of **60** rigs.

As of May 24th, the **BOEM** had accepted **83** out of the **148** high bids that it received on March 21, 2018 in **OCS Sale 250**. The BOEM has until **June 19th** to review the remaining **65** bids for adequacy.

On May 24th, **Shell Offshore** reported a large **deepwater discovery** within the **Norphlet play** in the **Mississippi Canyon** and **Desoto Canyon areas**. The **Dover** discovery, Shell's sixth successful well in the **Norphlet trend**, encountered more than **800 feet of net pay**. The **Dover** well, located in **7,500 feet of water**, was drilled to a **total depth of 29,000' TVD**. The discovery is situated in Mississippi Canyon area approximately **13 miles south of Shell's Appomattox host platform** and is considered an attractive potential subsea tie-back. The **Appomattox** platform recently arrived on location approximately 80 miles south of the Louisiana coastline. It is scheduled to start production before the end of 2019.

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Louisiana Coastal Geology Symposium 2018 July 10-11, 2018

Dalton J. Woods Auditorium • LSU Energy, Coast & Environment Building • Baton Rouge

Presented by: Louisiana Geological Survey and New Orleans Geological Society

Preliminary Call for Abstracts

This symposium will bring together scientists, engineers and policy makers from across a range of disciplines to exchange ideas, interpretations and insights on Louisiana coastal geology – both onshore and offshore – and on associated topics. It will be held in the Dalton J. Woods Auditorium of the Energy, Coast and Environment Building at Louisiana State University. John E. Johnston III of the Louisiana Geological Survey will serve as symposium chair.

You are hereby invited to submit an abstract for consideration as an oral or poster session at the symposium.

Deadline for abstracts: May 30, 2018

Topics for submission related to the Louisiana coast (specifically including the offshore) and its geology include:

Coastal geology • Coastal geohazards • Coastal ecology • Coastal environments • Coastal erosion
Coastal landforms and geomorphology • Coastal oil and gas regulation • Coastal sedimentology • Coastal subsidence
Geological components of coastal sustainability planning • Geological oceanography • New technologies or methodologies
Geological processes affecting the onshore and offshore landscapes
Geology, geomorphology, and geohazards of Louisiana barrier islands • Oil spill studies
Onshore and offshore geological, geophysical, geochemical, sedimentological and paleontological investigations
Onshore and offshore oil and gas exploration and production • Onshore and offshore pipelines • Paleoclimate studies
Planning impacts of coastal geologic features • Salt dissolution • Salt water intrusion • Sea level rise • Tsunamis, waves and tides

Abstracts must be submitted here: <https://easychair.org/conferences/?conf=lcs2018>

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- Advance registration must be postmarked by June 30, 2018.
- Checks should be made out to "New Orleans Geological Society" with "LCGS 2018" in the "For" blank
- Regular registration is \$40 until June 30, 2018, and \$80 thereafter.
- Student registration is \$5 until June 30, 2018, and \$10 thereafter.
- Speakers and posters presenters receive free registration.
- Click [HERE](#) for the advance registration form.

Additionally the Louisiana Geological Survey and the New Orleans Geological Society have joined forces in 2018 to lead the development of a Louisiana Coastal Geohazards Atlas. Several presentations will be made regarding the atlas and its progress.

For further information, please contact John E. Johnston III at hammer@lsu.edu.

Louisiana Coastal Geology Symposium 2018

July 10-11, 2018

Presented by: Louisiana Geological Survey and New Orleans Geological Society

Dalton J. Woods Auditorium
Energy, Coast and Environment Building
Louisiana State University
Baton Rouge, Louisiana

This symposium will bring together scientists, engineers and policy makers from across a range of geoscience disciplines to exchange ideas, interpretations and insights into Louisiana coastal geology - both onshore and offshore - and on associated topics.



John E. Johnston III of the Louisiana Geological Survey will serve as symposium chair. Many presentations will be made by coastal experts, including **Chris McLindon** of NOGS, **Jeff Hanor**, **Sam Bentley**, **Doug Carlson**, and **Gene Turner** of LSU, **John Lopez** of the Lake Pontchartrain Basin Foundation, and **Jim Flocks** of the U.S. Geological Survey.

The Louisiana Geological Survey's **Landforms of the Louisiana Coastal Plain** map will be publicly shown for the first time.

Additionally the Louisiana Geological Survey and the New Orleans Geological Society have joined forces in 2018 to lead the development of a **Louisiana Coastal Geohazards Atlas**. Several presentations will be made regarding the atlas and its progress.

There will be sufficient credit hours available to satisfy the annual continuing education requirements for a Louisiana licensed professional geoscientist, as well as an ethics talk that will satisfy the Louisiana annual ethics requirements for both geologists and engineers.

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For further information, please contact John E. Johnston III at hammer@lsu.edu.

West Bank Story: NOGS Field Guide Frontispiece Rides Again!

Michael L. “Mike” Merritt

GEM Consulting, LTD
Baton Rouge, Louisiana

Note: *This abstract and paper were submitted for consideration, inclusion in and presentation at the Coastal Geology Symposium, July 10 and 11, Baton Rouge.*

ABSTRACT

On the New Orleans West Bank, complicated subsurface stratigraphy and geological structures are well known. Less clear is do these deep, dynamic conditions influence surface geological features by creating surface Geo-hazards and thereby place levees and pump stations in harm’s way? This paper will present surface geology interpretations based on carefully examining topographic maps or LIDAR elevation data and recent surface geology maps in areas where deep structures are present to locate likely Geo-hazards for more detailed examination. These surface geology interpretations will take the measure of any surface indications of the influence of robust, deep, geological structures on landforms including interpreted surface faulting affecting flood defenses.

One of several West Bank examples is an interpreted surface fault near the Huey P. Long Bridge. Evidence for faulting includes robust seepage, shallow lithology changes, Mississippi River bank collapses, topographic evidence of a fault scarp and a reentrant mapped surface geology contact apparently indicating a stream alignment with the interpreted surface feature.

Among other examples, the Marrero to Westwego hurricane levee is in the close proximity of two interpreted surface faults. The down thrown side of one of the faults coincides with the under design strength clays undermining and severely cracking flood walls at the Westminster Pump Station.

Regionally, faults well known to oil and gas exploration and development are striking toward pump stations such as the Old Estelle Pump Station and the Western Closure Complex Pump Station and Sector Gate. The surface geology features noted appear to be influenced by the robust, deep structures and also coincide with difficulties operating and maintaining these projects.

This paper will postulate good stewardship with public funds and the moral fiber to engage in best professional practices make it clear: detailed, state of the art and comprehensive geological geophysical investigations must be conducted. The results of these new earth science investigations are vitally necessary to inform operations, maintenance and new construction of public flood defense works. The most important flood fight to win is the fight to redesign and strengthen flood defense public works projects informed by using modern geoscience methods so future flood control project improvements will better withstand being undermined by dynamic geologic processes.



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The State contact person is Ms. Stephanie Aymond at Stephanie.Aymond@LA.GOV . Applicants need to complete the official application, which can be found at the following link: <http://www.coastal.louisiana.gov/wp-content/uploads/2013/09/SLFPAApplication1.pdf>. Applicants are needed to fill the following Board vacancies:

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2. **SLFPA-West Board: One (1) Vacancy.** A Non-Resident for the West Board means anyone who resides in the State of Louisiana or the United States; but, does not reside in either Jefferson or Orleans Parish in that respective portion of these Parishes that is located on the West side of the Mississippi River.

A Non-Resident applicant can apply to both Board's or may choose to apply for only the East or West Board's, subject to the residency requirements.

B. Resident:

1. **SLFPA-East Board Tangipahoa Parish Resident: One (1) Vacancy.** The applicant for this vacancy must reside within the boundaries of Tangipahoa Parish.
2. **SLFPA-West Board Orleans Parish West Resident: One (1) Vacancy.** The applicant for this vacancy must reside in that portion of Orleans Parish that is located on the West side of the Mississippi River.



Contact NOGS at:
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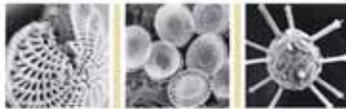
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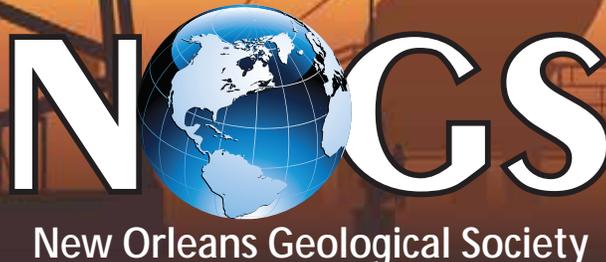
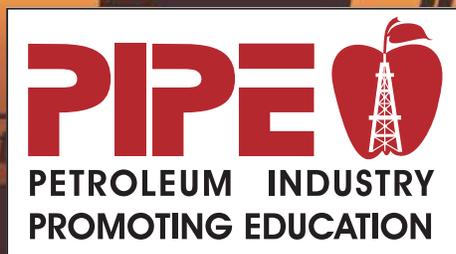
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